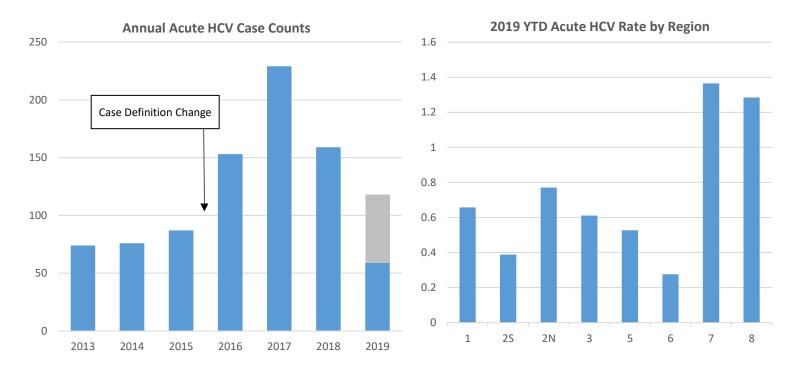
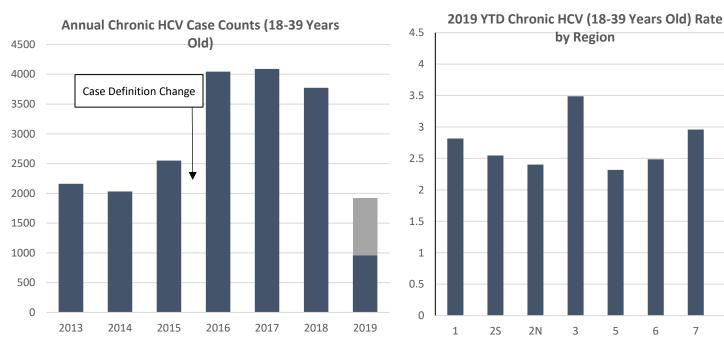
Hepatitis C Virus Quarterly Surveillance Report (Quarter 2, 2019)

(Data referred 4/1/2019 through 6/30/2019—extracted 9/19/2019—Report released 9/20/2019)

This monthly report is designed to inform local health departments of Hepatitis C Virus (HCV) cases reported to the Michigan Disease Surveillance System (MDSS) that may be related to injection drug use. These cases include all acute HCV cases and chronic HCV cases among persons aged 18 to 39. The purpose of the report is to highlight areas where transmission of HCV may be occurring among people who inject drugs. The goal is that, when warranted, this information will lead to more timely and effective public health intervention. Below are State-wide data trends. LHDspecific numbers can be found in the table that follows.

Please see our separate document on Technical Notes for how these data are obtained and defined and limitations to the data.





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County	ГН	Region	Acute HCV Cases (Current Quarter)	Acute HCV Cases (This Quarter 2018)	Acute HCV Cases (YTD)	Acute HCV Cases (2018 YTD)
Alcona	District Health Department #2	3	0	0	0	0
Alger	Luce-Mackinac-Alger-Schoolcraft	8	0	0	0	0
Allegan	Allegan	5	0	0	0	0
Alpena	District Health Department #4	7	0	0	0	0
Antrim	Northwest Michigan	7	0	0	1	1
Arenac	Central Michigan	3	0	0	0	0
Baraga	Western Upper Penninsula	8	0	0	0	1
Barry	Barry-Eaton	5	0	0	0	0
Bay	Bay	3	2	2	2	2
Benzie	Benzie-Leelanau	7	0	0	0	0
Berrien	Berrien	5	0	0	2	1
Branch	Branch-Hillsdale-St. Joseph	5	0	0	0	0
Calhoun	Calhoun	5	0	0	0	0
Cass	Van Buren-Cass	5	0	0	1	0
Charlevoix	Northwest Michigan	7	0	0	0	0
Cheboygan	District Health Department #4	7	1	0	1	0
Chippewa	Chippewa	8	0	1	1	3
Clare	Central Michigan	6	0	0	0	0
Clinton	Mid-Michigan	1	0	0	0	0
Crawford	District Health Department #10	7	0	0	1	0
Delta	Delta-Menominee	8	0	0	0	2
Detroit City	Detroit City	25	0	0	0	0
Dickinson	Dickinson-Iron	8	0	0	0	0
Eaton	Barry-Eaton	1	0	0	0	2
Emmet	Northwest Michigan	7	0	0	1	0
Genesee	Genesee	3	1	7	2	8
Gladwin	Central Michigan	3	1	0	1	0
Gogebic	Western Upper Penninsula	8	0	0	0	0
Grand Traverse	Grand Traverse	7	0	1	2	1
Gratiot	Mid-Michigan	1	0	0	0	0
Hillsdale	Branch-Hillsdale-St. Joseph	1	0	0	0	0
Houghton	Western Upper Penninsula	8	1	0	1	0
Huron	Huron	3	1	0	1	0
Ingham	Ingham	1	0	1	0	5
Ionia	Ionia	6	0	0	0	1
losco	District Health Department #2	3	1	0	1	0
Iron	Dickinson-Iron	8	0	1	0	1
Isabella	Central Michigan	6	0	0	0	1
Jackson	Jackson	1	4	0	6	1
Kalamazoo	Kalamazoo	5	0	1	1	2
Kalkaska	District Health Department #10	7	0	0	0	0
Kent	Kent	6	1	3	1	4

County	LHJ	Region	Acute HCV Cases (Current Quarter)	Acute HCV Cases (This Quarter 2018)	Acute HCV Cases (YTD)	Acute HCV Cases (2018 YTD)
Keweenaw	Western Upper Penninsula	8	0	0	0	0
Lake	District Health Department #10	6	0	0	0	0
Lapeer	Lapeer	3	0	0	0	0
Leelanau	Benzie-Leelanau	7	0	0	0	0
Lenawee	Lenawee	1	1	0	1	0
Livingston	Livingston	1	0	0	0	0
Luce	Luce-Mackinac-Alger-Schoolcraft	8	0	0	0	0
Mackinac	Luce-Mackinac-Alger-Schoolcraft	8	0	0	0	0
Macomb	Macomb	2N	9	4	14	10
Manistee	District Health Department #10	7	0	0	0	0
Marquette	Marquette	8	0	1	1	2
Mason	District Health Department #10	6	0	1	0	1
Mecosta	District Health Department #10	6	0	0	0	0
Menominee	Delta-Menominee	8	1	2	1	2
Midland	Midland	3	0	0	0	0
Missaukee	District Health Department #10	7	0	1	0	2
Monroe	Monroe	2S	0	0	0	0
Montcalm	Mid-Michigan	6	0	2	0	2
Montmorency	District Health Department #4	7	0	0	0	0
Muskegon	Muskegon	6	1	3	3	5
Newaygo	District Health Department #10	6	0	0	0	0
Oakland	Oakland	2N	0	1	2	5
Oceana	District Health Department #10	6	0	0	0	0
Ogemaw	District Health Department #2	3	0	1	0	3
Ontonagon	Western Upper Penninsula	8	0	0	0	0
Osceola	Central Michigan	6	0	0	0	0
Oscoda	District Health Department #2	3	0	0	0	0
Otsego	Northwest Michigan	7	0	0	0	0
Ottawa	Ottawa	6	0	1	0	1
Presque Isle	District Health Department #4	7	0	0	0	0
Roscommon	Central Michigan	7	0	0	0	0
Saginaw	Saginaw	3	0	2	0	3
St Clair	St Clair	2N	0	1	1	4
St Joseph	Branch-Hillsdale-St. Joseph	5	0	0	0	0
Sanilac	Sanilac	3	0	0	0	0
Schoolcraft	Luce-Mackinac-Alger-Schoolcraft	8	0	0	0	1
Shiawassee	Shiawassee	1	0	0	0	0
Tuscola	Tuscola	3	0	0	0	0
Van Buren	Van Buren-Cass	5	1	1	1	1
Washtenaw	Washtenaw	25	0	0	1	1
Wayne	Wayne	25	2	0	8	0
Wexford	District Health Department #10	7	0	0	0	1
MDOC	Michigan Department of Corrections	MDOC	0	0	0	0
STATEWIDE			28	38	59	80

County	LHJ	Region	Chronic HCV Cases, Adults Under 40 (Current Quarter)	Chronic HCV, Adults Under 40 (This Quarter 2018)	Chronic HCV Cases, Adults Under 40 (YTD)	Chronic HCV Cases, Adults Under 40 (YTD 2018)
Alcona	District Health Department #2	3	0	<5	0	<5
Alger	Luce-Mackinac-Alger-Schoolcraft	8	0	<5	0	<5
Allegan	Allegan	5	<5	<5	5	<5
Alpena	District Health Department #4	7	7	<5	9	<5
Antrim	Northwest Michigan	7	<5	<5	<5	<5
Arenac	Central Michigan	3	<5	<5	<5	5
Baraga	Western Upper Penninsula	8	<5	<5	6	5
Barry	Barry-Eaton	5	0	6	0	6
Bay	Bay	3	5	21	8	26
Benzie	Benzie-Leelanau	7	0	<5	0	<5
Berrien	Berrien	5	8	15	11	19
Branch	Branch-Hillsdale-St. Joseph	5	<5	<5	5	<5
Calhoun	Calhoun	5	12	13	16	14
Cass	Van Buren-Cass	5	<5	9	<5	12
Charlevoix	Northwest Michigan	7	<5	<5	<5	<5
Cheboygan	District Health Department #4	7	<5	7	<5	8
Chippewa	Chippewa	8	<5	10	6	16
Clare	Central Michigan	6	<5	6	<5	8
Clinton	Mid-Michigan	1	<5	<5	<5	<5
Crawford	District Health Department #10	7	<5	0	<5	0
Delta	Delta-Menominee	8	5	10	6	15
Detroit City	Detroit City	25	36	82	53	109
Dickinson	Dickinson-Iron	8	<5	<5	<5	<5
Eaton	Barry-Eaton	1	6	6	10	9
Emmet	Northwest Michigan	7	<5	<5	<5	<5
Genesee	Genesee	3	29	53	45	79
Gladwin	Central Michigan	3	<5	<5	<5	5
Gogebic	Western Upper Penninsula	8	0	7	0	7
Grand Traverse	Grand Traverse	7	8	11	11	16
Gratiot	Mid-Michigan	1	<5	<5	<5	<5
Hillsdale	Branch-Hillsdale-St. Joseph	1	8	7	8	8
Houghton	Western Upper Penninsula	8	<5	<5	5	5
Huron	Huron	3	<5	<5	<5	<5
Ingham	Ingham	1	17	19	25	32
Ionia	Ionia	6	<5	6	<5	6
losco	District Health Department #2	3	<5	<5	<5	<5
Iron	Dickinson-Iron	8	<5	<5	<5	6
Isabella	Central Michigan	6	10	18	13	21
Jackson	Jackson	1	9	32	14	44
Kalamazoo	Kalamazoo	5	20	26	24	32
Kalkaska	District Health Department #10	7	<5	<5	<5	<5
Kent	Kent	6	44	35	57	49
Keweenaw	Western Upper Penninsula	8	<5	0	<5	0

Mackinac Luce-Mackinac-Alger-S Macomb Macomb Manistee District Health Departr Marquette Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Joseph Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	LHJ	Region	Chronic HCV Cases, Adults Under 40 (Current Quarter)	Chronic HCV, Adults Under 40 (This Quarter 2018)	Chronic HCV Cases, Adults Under 40 (YTD)	Chronic HCV Cases, Adults Under 40 (YTD 2018)
Leelanau Benzie-Leelanau Lenawee Lenawee Livingston Livingston Luce Luce-Mackinac-Alger-S Mackinac Luce-Mackinac-Alger-S Macomb Macomb Manistee District Health Departr Marquette Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Ottawa District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Josenilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren-Cass Washtenaw Wayne Wayne	lealth Department #10	6	0	0	0	0
Lenawee Livingston Luce Luce-Mackinac-Alger-S Mackinac Luce-Mackinac-Alger-S Macomb Manistee District Health Departr Marquette Mason District Health Departr Mecosta District Health Departr Menominee Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Newaygo District Health Departr Oakland Oceana District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Oscoola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Presque Isle District Health Departr Ottawa Ottawa Ottawa Presque Isle District Health Departr St Clair St Joseph Branch-Hillsdale-St. Josenilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	·	3	9	5	11	9
Livingston Luce Luce-Mackinac-Alger-S Mackinac Luce-Mackinac-Alger-S Macomb Manistee District Health Departr Marquette Mason District Health Departr Mecosta District Health Departr Menominee Midland Missaukee District Health Departr Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Newaygo District Health Departr Oakland Oceana District Health Departr Ogemaw District Health Departr Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Presque Isle District Health Departr Ottawa Central Michigan Ottawa Ottawa Ottawa Ottawa Presque Isle District Health Departr Saginaw Saginaw St Clair St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Josenilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	eelanau	7	<5	0	<5	0
Luce Luce-Mackinac-Alger-S Mackinac Luce-Mackinac-Alger-S Macomb Macomb Manistee District Health Departr Marquette Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Joseph Branch-Hillsdale-St. Joseph Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Wayne Wayne		1	7	13	13	17
Luce Luce-Mackinac-Alger-S Mackinac Luce-Mackinac-Alger-S Macomb Macomb Manistee District Health Departr Marquette Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Joseph Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren-Cass Washtenaw Wayne Wayne	n	1	6	9	9	15
Mackinac Luce-Mackinac-Alger-S Macomb Macomb Manistee District Health Departr Marquette Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Oscoola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	ckinac-Alger-Schoolcraft	8	<5	<5	<5	<5
Macomb Manistee District Health Departr Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Newaygo District Health Departr Oakland Oceana District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Ogemaw District Health Departr Othonagon Western Upper Pennin Oscoda District Health Departr Otsego Northwest Michigan Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw St Clair St Clair St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	ckinac-Alger-Schoolcraft	8	0	<5	0	<5
Marquette Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Newaygo District Health Departr Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw St Clair St Joseph Branch-Hillsdale-St. Joseph Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne		2N	54	89	93	129
Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Josenilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren-Cass Washtenaw Wayne Wayne	lealth Department #10	7	<5	<5	<5	<5
Mason District Health Departr Mecosta District Health Departr Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Josenilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren-Cass Washtenaw Wayne Wayne	te	8	<5	8	6	14
Mecosta District Health Departrick Menominee Delta-Menominee Midland Midland Missaukee District Health Departrick Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departrick Muskegon Muskegon Muskegon Newaygo District Health Departrick Health Departrick Midland Oakland Oakland Oakland Oceana District Health Departrick Health Departrick District Health Dep		6	<5	<5	9	<5
Menominee Delta-Menominee Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	<u> </u>	6	<5	7	<5	8
Midland Midland Missaukee District Health Departr Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne		8	0	<5	<5	<5
Missaukee District Health Departre Monroe Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departre Muskegon Muskegon Muskegon District Health Departre Oakland Oakland Oakland Oceana District Health Departre Ogemaw District Health Departre Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departre Otsego Northwest Michigan Ottawa Ottawa Ottawa Ottawa Ottawa Presque Isle District Health Departre Roscommon Central Michigan Saginaw Saginaw St Clair St Iuce-Mackinac-Alger-St Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne Wayne		3	6	13	8	16
Monroe Monroe Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Oscoola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	lealth Department #10	7	<5	0	<5	<5
Montcalm Mid-Michigan Montmorency District Health Departr Muskegon Muskegon Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne		25	21	24	25	31
Montmorency District Health Departrick Muskegon Muskegon Newaygo District Health Departrick Oakland Oakland Oceana District Health Departrick Ogemaw District Health Departrick Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departrick Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departrick Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Joseph Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-St Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	nigan	6	8	6	11	7
Muskegon Newaygo District Health Departr Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne		7	<5	<5	<5	<5
Newaygo District Health Departr Oakland Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	·	6	15	12	22	17
Oakland Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Tuscola Van Buren Van Buren-Cass Washtenaw Wayne		6	<5	8	<5	13
Oceana District Health Departr Ogemaw District Health Departr Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	icatar Department #10	2N	48	75	59	113
Ogemaw District Health Departronger Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departronger Otsego Northwest Michigan Ottawa Ottawa Ottawa Presque Isle District Health Departronger Oscommon Central Michigan Osaginaw Saginaw Saginaw St Clair St Clair St Clair St Clair St Joseph Branch-Hillsdale-St. Joseph Branch-Hillsdale-St. Joseph Sanilac Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-St Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne	lealth Denartment #10	6	<5	<5	<5	<5
Ontonagon Western Upper Pennin Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne Wayne	·	3	<5	5	<5	13
Osceola Central Michigan Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne Wayne	· · · · · · · · · · · · · · · · · · ·	8	0	0	0	0
Oscoda District Health Departr Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne Wayne		6	<5	<5	<5	<5
Otsego Northwest Michigan Ottawa Ottawa Presque Isle District Health Departr Roscommon Central Michigan Saginaw Saginaw St Clair St Clair St Joseph Branch-Hillsdale-St. Jos Sanilac Sanilac Schoolcraft Luce-Mackinac-Alger-S Shiawassee Shiawassee Tuscola Tuscola Van Buren Van Buren-Cass Washtenaw Wayne Wayne		3	0	<5	0	6
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MDOC Michigan Department STATEWIDE	Department of Corrections	MDOC	63 659	100 1038	99	143 1458

Technical Notes

Hepatitis C Virus Monthly Surveillance Report

Data in this report should be interpreted with caution and with acknowledgement of the limitations. Please direct any questions or comments regarding this report or the methods to the MDHHS Viral Hepatitis Unit (MDHHS-Hepatitis@michigan.gov)

Acute and Chronic HCV Infection

- Acute HCV and Chronic HCV data are obtained from the Michigan Disease Surveillance System (MDSS).
- Only completed cases meeting CDC/CSTE case definitions (<u>CSTE hepatitis case definitions</u>) are pulled for inclusion in the report. Included in the analysis are:
 - All Probable and Confirmed Acute HCV cases
 - o Probable and Confirmed Chronic HCV cases between the ages of 18 and 39
- Cases are pulled no earlier than 30 days from the end of the reporting month (e.g. January data is extracted no earlier than March 1st). These data are not finalized and are subject to change throughout the year.
- It should be noted that CDC/CSTE case definitions for acute and chronic HCV were significantly changed in calendar year 2016 (acute and chronic). Therefore, increases in acute and chronic HCV cases in 2016 may be reflective of the change in case counting methods and not necessarily an increase in new cases.

For acute and chronic HCV acquisition, complete risk factor information is needed in order for MDHHS to identify trends in transmission related to injection drug use, health care transmission, and emerging risk factors. The temporality of chronic HCV infections is often unknown due to the lack of symptoms and awareness of the time of infection. Timely and comprehensive follow-up is needed in order to maximize the effectiveness of this report.

Regional Rates and Projections

- Year to date case rates are stratified by Michigan Public Health Preparedness Regions (MPHPR). A map of the MPHPRs can be accessed here (Regional Map).
- Cases from the Michigan Department of Corrections (MDOC) are removed from regional case rates.
- Rates are calculated using 2015 Census data for the population (2010 US Census).
- The projected number of cases in 2016 is calculated by multiplying the year to date cases by the proportion of months remaining in the year.